



IFW

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Toshiyuki OGA

Docket No: Q90624

Appln. No.: 10/551,415

Group Art Unit: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: September 30, 2005

For: DATA PROCESSING TERMINAL SYSTEM AND TRANSMITTING AND RECEIVING METHOD USING THE SAME

**SUBMISSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

For the Examiner's convenience, enclosed herewith is a copy of the English translation of the International Preliminary Report on Patentability (IPRP). It is assumed that copies of the cited references as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.

Respectfully submitted,

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Howard L. Bernstein  
Registration No. 25,665

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

WASHINGTON OFFICE  
23373  
CUSTOMER NUMBER

Date: May 11, 2006

From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II)  
OF THE PATENT COOPERATION TREATY)  
(PCT Rules 44bis.3(c) and 72.2)

Date of mailing (day/month/year)  
09 March 2006 (09.03.2006)

To:

KUDOH, Minoru,  
6F, KADOYA BLDG. 24-10, Minamiooi 6-chome  
Shinagawa-ku Tokyo  
1400013  
JAPON



Applicant's or agent's file reference  
04PCFP960

**IMPORTANT NOTIFICATION**

International application No.  
PCT/JP2004/004618

International filing date (day/month/year)  
31 March 2004 (31.03.2004)

Applicant

NEC CORPORATION et al

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

**2. Transmittal of the copy of the translation to the designated or elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

**It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.**

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 90 90

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 04PCFP960	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. PCT/JP2004/004618	International filing date (day/month/year) 31 March 2004 (31.03.2004)	Priority date (day/month/year) 01 April 2003 (01.04.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant NEC CORPORATION			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).
2. This REPORT consists of a total of 5 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input type="checkbox"/> Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).

Date of issuance of this report  
02 March 2006 (02.03.2006)

Authorized officer

Yoshiko Kuwahara

Telephone No. +41 22 338 90 90

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

**PCT**

Translation

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

		Date of mailing (day/month/year)
Applicant's or agent's file reference <b>04PCFP960</b>		FOR FURTHER ACTION See paragraph 2 below
International application No. <b>PCT/JP2004/004618</b>	International filing date (day/month/year) <b>31.03.2004</b>	Priority date (day/month/year) <b>01.04.2003</b>
International Patent Classification (IPC) or both national classification and IPC		
Applicant <b>NEC CORPORATION</b>		

<p>1. This opinion contains indications relating to the following items:</p> <p> <input checked="" type="checkbox"/> Box No. I Basis of the opinion  <input type="checkbox"/> Box No. II Priority  <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  <input type="checkbox"/> Box No. IV Lack of unity of invention  <input checked="" type="checkbox"/> Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  <input type="checkbox"/> Box No. VI Certain documents cited  <input type="checkbox"/> Box No. VII Certain defects in the international application  <input type="checkbox"/> Box No. VIII Certain observations on the international application         </p>
<p>2. <b>FURTHER ACTION</b></p> <p>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further options, see Form PCT/ISA/220.</p>
<p>3. For further details, see notes to Form PCT/ISA/220.</p>

Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/004618

Box No. I	Basis of this opinion
<p>1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</p> <p><input type="checkbox"/> This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).</p>	
<p>2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</p> <p>a. type of material</p> <p><input type="checkbox"/> a sequence listing</p> <p><input type="checkbox"/> table(s) related to the sequence listing</p> <p>b. format of material</p> <p><input type="checkbox"/> in written format</p> <p><input type="checkbox"/> in computer readable form</p> <p>c. time of filing/furnishing</p> <p><input type="checkbox"/> contained in the international application as filed.</p> <p><input type="checkbox"/> filed together with the international application in computer readable form.</p> <p><input type="checkbox"/> furnished subsequently to this Authority for the purposes of search.</p>	
<p>3. <input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.</p>	
<p>4. Additional comments:</p>	

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/JP2004/004618

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-28	YES
	Claims		NO
Inventive step (IS)	Claims	5, 6, 12, 13	YES
	Claims	1-4, 7-11, 14-28	NO
Industrial applicability (IA)	Claims	1-28	YES
	Claims		NO

2. Citations and explanations:

Document 1: JP, 8-149035, A (Sony Corp.), 7 June, 1996 (07.06.96), paragraphs [0010]-[0014],  
Figs. 3 and 9  
Document 2: WO, 1998-020407, A1 (Hitachi, Ltd.), 14 May, 1998 (14.05.98), pages 6-7, pages 16-18, Figs. 1, 8 and 9  
Document 3: JP, 6-284159, A (Toshiba Corp.), 7 October, 1994 (07.10.94), all pages, all drawings, & US. 5535252, A  
Document 4: JP, 2001-103099, A (Fujitsu General Ltd.), 13 April, 2001 (13.04.01), all pages, Fig. 1  
Document 5: JP, 6-14069, A (Hitachi, Ltd.), 21 January, 1994 (21.01.94), all pages, all drawings  
Document 6: JP, 11-346186, A (Toyo Communication Equipment Co., Ltd.), 14 December, 1999 (14.12.99), all pages, all drawings

Claims 1, 9, 17, 19, 21, 23, 24 and 26

Document 1 cited in the ISR describes an information-processing terminal system having (1) an information-processing terminal and (2) a transmitting/receiving device detachable from the information-processing terminal, having (a) a transmission/reception processing part, (b) a modulation/demodulation part, and (c) a base-band processing part, and it is well known as described in documents 2-5 cited in the ISR that a communication device and a signal processing part are synchronized by a clock for operation.

Accordingly, the subject matters of claims 1, 9, 17, 19, 21, 23, 24 and 26 do not appear to involve an inventive step in view of documents 1-5.

Claims 2, 16, 18, 20, 22, 25, 27 and 28

Documents 5 and 6 describe that a digital-signal processing device performs conversion processes of converting digital base-band signals received into data received and of converting data to be transmitted into digital base-band signals to be transmitted. A person skilled in the art could have easily constituted the information-processing terminal to process data, described in document 1, as performing the conversion process of document 5 or 6.

Accordingly, the subject matters of claims 2, 16, 18, 20, 22, 25, 27 and 28 do not appear to involve an inventive step in view of documents 1-6.

Claims 3 and 10

Documents 3-5 describe that a reception symbol-clock is generated in a demodulating part and output to a base-band processing part and a signal processing part.

Accordingly, the subject matters of claims 3 and 10 do not appear to involve an inventive step in view of documents 1-6.

Claims 4 and 11

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/004618

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement

Document 4 describes that a clock generator is provided in a transmitting/receiving device; the reception symbol clock generated in a demodulating part is input to the said clock generator, and the clock output from the said clock generator is output to a base-band processing part and a signal processing part.

Accordingly, the subject matters of claims 4 and 11 do not appear to involve an inventive step in view of documents 1-6.

Claims 7, 8, 14 and 15

Generating a clock by free-running oscillation is a commonly used technology in the field of oscillators.

Accordingly, the subject matters of claims 7, 8, 14 and 15 do not appear to involve an inventive step in view of documents 1-6.

Claims 5, 6, 12 and 13

The subject matters of claims 5, 6, 12 and 13 are neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.